



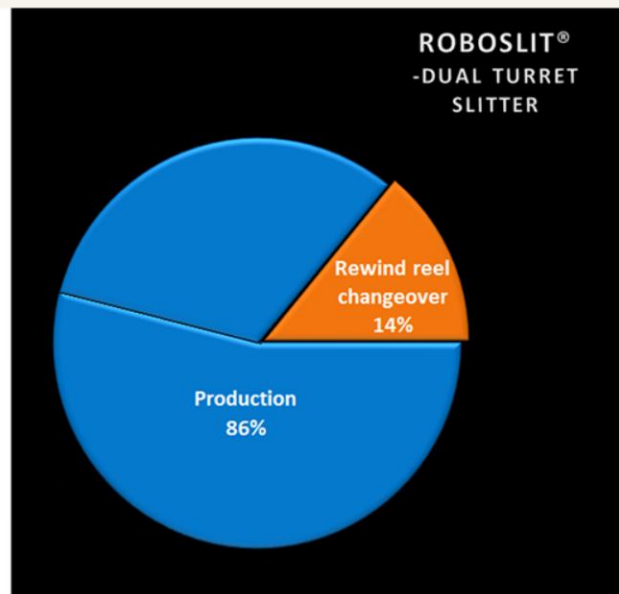
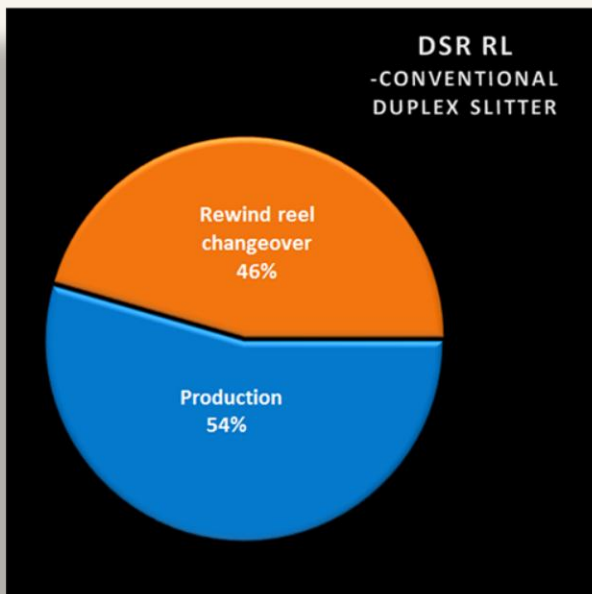
DUAL TURRET SLITTER REWINDER ROBOSLIT® LAUNCHED

With the recent installation of its first dual turret slitter rewinder ROBOSLIT® at GLS Industries Gurgaon, SP ULTRAFLEX® has entered the league of a handful of manufacturers across the globe to have reliable and proven turret rewind technology in its repository.

“With the new pro-industry government coming in and the economy turning around, we couldn’t have asked for a better timing for this launch”, says Mr. Ravi Kohli, CMD, SP ULTRAFLEX® Systems (P) Ltd.

The ROBOSLIT® complements an already well patronized range of slitter rewinders namely the DSR FL (Front loading), DSR RL (Rear loading) and ULTRASLIT® OHP which offer line speeds ranging from 500 mpm to 700 mpm and advanced material handling possibilities.

On an average, rewind changeover sequences on a duplex slitter rewinder account for nearly half of the production cycle. The dual turret rewinds of the ROBOSLIT® permit almost the entire rewind changeover sequence without interrupting the slitting process, reducing the time taken to a fraction of that on conventional duplex slitter rewinders. The machine is thus released to run for a much larger portion of the production cycle at process speeds already established at optimum levels vide preceding versions of duplex slitter rewinders.



TIME STUDY OF REWIND CHANGEOVER



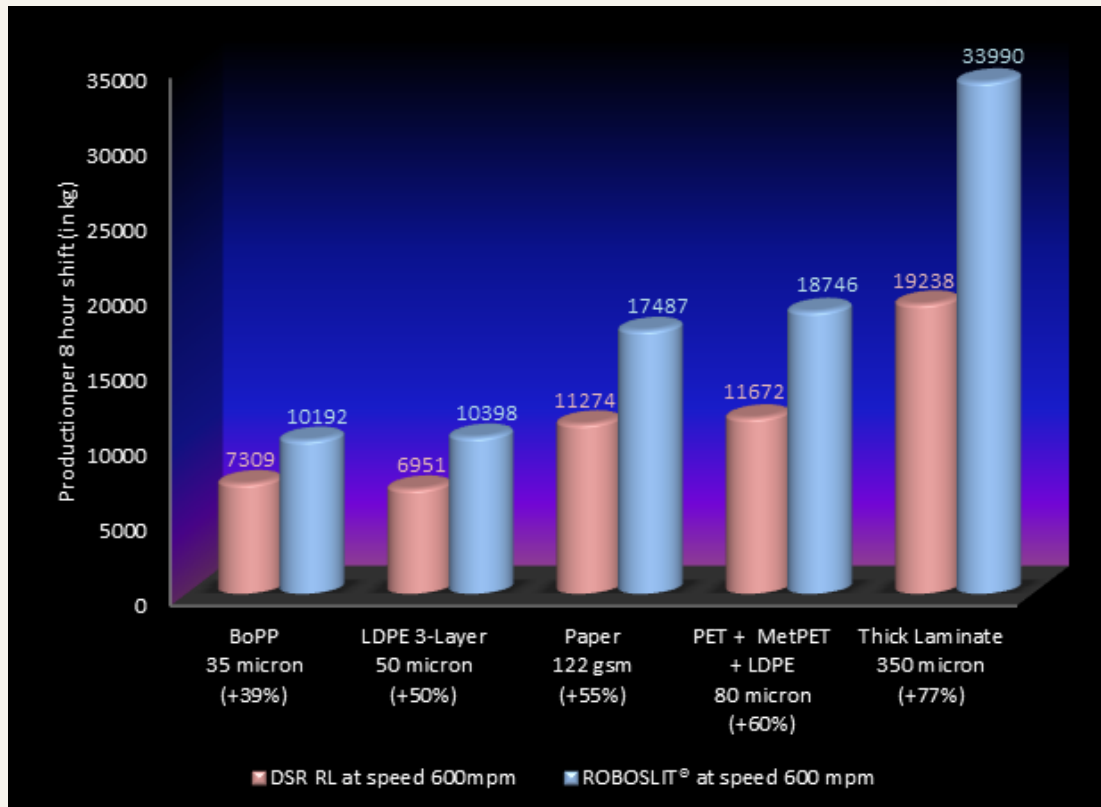
ROBOSLIT® - Case Studies

A case study for substrates ranging from light (BoPP- 35 micron) to heavy (thick laminates- 350 micron) substrates indicates an increase in productivity ranging from 39% to 77% on dual turret slitter rewinders vis a vis the duplex rewind type.

An output of 60% more is achieved as compared to that on a duplex slitter rewriter having the same process speed.

[\[Calculation for case study example 4 \(PET+ MetPET+ LDPE , 80 micron film\)\]](#)

“More output per unit space, more output per unit personnel and more output per machine. All our efforts are directed towards achieving these goals” says Mr. Biku Kohli, Director, SP ULTRAFLEX® Systems (P) Ltd.





ROBOSLIT® at GLS Industries, Gurgaon



"Investing in tomorrow's technology today has been by far the single largest factor behind our growth and success in an increasingly competitive environment. We are happy with the consistent delivery of specified quality and output levels of the ROBOSLIT® since its installation and plan to replace some of our duplex machines with dual turret machines in the near future" says Mr. Rajesh Goel, CMD, GLS Industries Gurgaon, India where the first machine is installed.

ROBOSLIT® - Main Features

The ROBOSLIT® has a capacity to handle unwind reels having diameters of upto 1000 mm and web-widths of upto 1300 mm. It is possible to produce rewind reels with diameters of upto 600 mm at speeds of upto 700 ppm.

In combination with the motorized ejector and one touch finished reels off loader, the dual turret mechanism introduces a rhythm and sequence in the production cycle which deskills the single operator required to handle the machine, ensuring the realization of forecast output levels consistently.

Other notable features of the ROBOSLIT® which are supportive to or concurrent with the dual turret mechanism include a motorised ejector which displaces the rewind reels, a one touch automatic off loader to bring the off loaded reels to pallet level, laser lights to assist in quick and precise rewind core positioning and linear movement carriages for the lay on section.



**NEW
PRODUCT**

OBSERVATIONS OF CUSTOMERS AND INDUSTRY EXPERTS



"Even with the best of technology, not all substrates can be run at full rated machine speeds. Given this scenario, the turret system is a welcome tool in the hands of the Production Manager to boost productivity by stretching the machine uptime", says Mr. Shripal Lodha, CMD, Uma Group of Companies, Jodhpur, India. The Uma Group has 8 slitter rewinders from SP.



"Dual turret technology, while no doubt a boon to the converting industry presupposes very high standards of print inspection to permit smooth production cycles punctuated only by reel changeovers", says Mr. Manish Rathi, Director, Shrinath Rotopack Pvt Ltd. Shrinath Rotopack has 5 slitter rewinders from SP.



"The horizontal orientation of the lay on section affords a level of control over contact pressure that even complex algorithms cannot accomplish on traditional pivoted arms", says Mr. Hari Babu, VP- operations of Nexgen Laminators Private Limited, Patiala, India. Nexgen Laminators has 2 slitter rewinders from SP in its three years of operation.



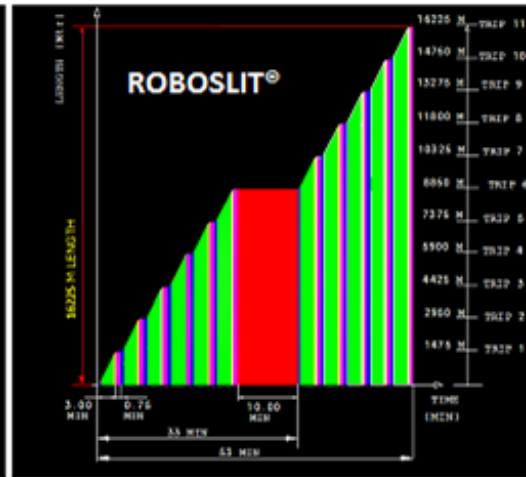
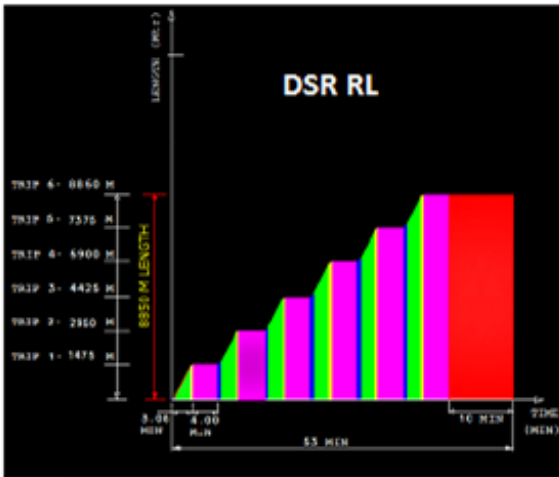
"Sequencing and time locking the various activities that comprise a rewind changeover introduce a predictability w.r.t. output levels not possible on duplex machines", says Mr. Manoj Pandey, Senior VP (Technical & Operations), Positive Packaging United (M.E.) FZCO, UAE. The Positive Packaging group has 8 slitter rewinders from SP, besides a number of wide and narrow web rewinding machines across their plants in India, UAE and Nigeria.



"There was a time when the thumb rule was to plan two Slitters for every Printing Press installed. Over the years, with advancements in slitting technology such as differential shafts, cantilevered construction and material handling options, this ratio steadily changed to parity. With the advent of dual turret slitters, the balance may soon tilt in favor of slitting machines, with each slitter supporting more than one press", says Mr. Rajan Vaswani, Chairman, Veepee Group of Companies, Lagos, Nigeria. In the four years that the two companies have been associated, the Veepee Group has purchased 5 slitter rewinders and a number of wide and narrow web rewinding machines from SP.



Calculation for case study example 4 (PET+ MetPET+ LDPE , 80 micron film)



DSR RL at 600 mpm		
Production Status	Time taken (in min)	Length processed (in metres)
Ramp up to 600 mpm	0.75	225
Steady speed of 600 mpm	1.83	1100
Ramp down from 600 mpm	0.5	150
Rewind reel changeover	4	0
Unwind reel changeover	10	0

ROBOSLIT® at 600 mpm		
Production Status	Time taken (in min)	Length processed (in metres)
Ramp up to 600 mpm	0.75	225
Steady speed of 600 mpm	1.83	1100
Ramp down from 600 mpm	0.5	150
Rewind reel changeover	0.75	0
Unwind reel changeover	10	0

One production cycle in DSR RL = 53 min
Output per rewind trip = [(1475m length)*(1.3m width)*(80 micron film)] = 214.8 kg
Output per production cycle = 6 trips * 214.8 kg per trip = 1288.8 kg
Output per 8 hour shift = (1288.8 kg)/53 * (60 * 8) = 11672 kg i.e. 11.67 Tonnes

One production cycle in ROBOSLIT® = 33 min
Output per rewind trip = [(1475m length)*(1.3m width)*(80 micron film)] = 214.8 kg
Output per production cycle = 6 trips * 214.8 kg per trip = 1288.8 kg
Output per 8 hour shift = (1288.8 kg)/33 * (60 * 8) = 18746 kg i.e. 18.75 Tonnes

The result: An output of 60% more than that achieved on a duplex slitter rewinder having the same process speeds.